- 39 ((600/528).CCLS. @rlad<20010702) threshold\$3 - 51 ((600/528).CCLS. @rlad<20010702) (envelope or smo - 26 (((600/528).CCLS	EPO; JPO USPAT; and filter\$3 and US-PGPUB; EPO; JPO uspat; US-PGPUB; EPO; JPO uspat;	2003/09/25 12:25 2003/09/15 14:12 2003/09/15 14:12 2003/09/15
- 39 ((600/528).CCLS. @rlad<20010702) threshold\$3 - 51 ((600/528).CCLS. @rlad<20010702) (envelope or smo	EPO; JPO USPAT; US-PGPUB; EPO; JPO	2003/09/25 12:25 2003/09/15 14:12 2003/09/15 14:12 2003/09/15
Grlad<20010702)   -	) and (@ad<20010702 or and filter\$3	12:25 2003/09/15 14:12 2003/09/15 14:12 2003/09/15
Grlad<20010702)	USPAT; us-pgpuB; EPO; JPO	14:12 2003/09/15 14:12 2003/09/15
- 51 ((600/528).CCLS. @rlad<20010702) (envelope or smo - 26 (((600/528).CCLS	) and (@ad<20010702 or and filter\$3 and US-PGPUB; oth\$4 or differentiat\$3) .) and (@ad<20010702 or uSPAT; uS-PGPUB; and filter\$3 and US-PGPUB; (((600/528).CCLS.) and @rlad<20010702) and	14:12
- 26 (((600/528).CCLS	.) and (@ad<20010702 or uSPAT; uS-PGPUB; (((600/528).CCLS.) and @rlad<20010702) and	2003/09/15
	(((600/528).CCLS.) and EPO; JPO @rlad<20010702) and	
threshold\$3) and (@ad<20010702 or		
257 600/586	USPAT; US-PGPUB; EPO; JPO	2003/09/15 14:12
- 58 600/586 and (@ad @rlad<20010702)	<20010702 or USPAT;	2003/09/15 14:12
- 37 600/586 and (@ad @rlad<20010702) threshold\$3	<pre>&lt;20010702 or</pre>	2003/09/15 14:12
- 189 (600/586).CCLS.	EPO; JPO USPAT; US-PGPUB;	2003/09/15 14:56
@rlad<20010702)		2003/09/15 14:55
- 24 ((600/586).CCLS. @rlad<20010702)	) and (@ad<20010702 or USPAT; and filter\$3 and US-PGPUB;	2003/09/15 14:56
@rlad<20010702)		2003/09/15 15:00
and (((600/586). or @rlad<2001070 threshold\$3)	oth\$4 or differentiat\$3)) EPO; JPO CCLS.) and (@ad<20010702) and filter\$3 and	
((heart same (so audio)) or phono (smooth\$3 or dif or mean or envel	3,528,586).CCLS.) and USPAT; US-PGPUB; cardiogra\$3) and ferentiat\$4 or averag\$3 ope) and (squar\$4 or k near2 detect\$3)) and	2003/09/16
- 435 (@ad<20010702 or (600/528,586).cc	LS. USPAT; US-PGPUB;	2003/09/23 11:50
- 362 ((600/528,586).c or @rlad<2001070	EPO; JPO USPAT; US-PGPUB; EPO; JPO EPO; JPO	2003/09/23
or @rlad<2001070	CCLS.) and (@ad<20010702 USPAT; 2)) and (((first or uS-PGPUB; art near2 sound)) or (s1 EPO; JPO	2003/09/23 12:26
- 31 (((600/528,586). or @rlad<2001070	CCLS.) and (@ad<20010702 USPAT; 2) ) and (((first or US-PGPUB; art near2 sound)) or (s1 EPO; JPO	2003/09/23 12:01
or s2)) and thre (((600/528,586). or @rlad<2001070 second) with (he	shold\$4 CCLS.) and (@ad<20010702 USPAT; 2) ) and (((first or US-PGPUB; art near2 sound)) or (s1 EPO; JPO	2003/09/23 12:45
or s2 or "S 1" o	r "s 2" or HS1 or HS2 or "HSI" or "HSII")) and	

Search History 9/27/03 9:22:17 PM Page 1

-	18	(((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and envelop\$3 and differentia\$5	USPAT; US-PGPUB;	2003/09/23 12:41
-	103	(((600/528,586).CCLS.) and (@ad<20010702	EPO; JPO USPAT;	2003/09/23
		or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (sl or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSII"))	US-PGPUB; EPO; JPO	13:09
-	43	<pre>((((600/528,586).CCLS.) and (@ad&lt;20010702) or @rlad&lt;20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) ) and (derivative\$1 or differentiat\$4 or differentiation or smooth\$5)</pre>	USPAT; US-PGPUB; EPO; JPO	2003/09/23
_	14	(((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702)) and (((first or second) with (heart near2 sound)) or (sl or s2 or "S1" or "s2" or HS1 or HS2 or "SI" or "SII" or "HSI"))) and (derivative\$1 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3	USPAT; US-PGPUB; EPO; JPO	2003/09/23
_	162	(128/901).CCLS.	USPAT; US-PGPUB; EPO; JPO	2003/09/23
-	143	((128/901).CCLS.) and (@ad<20010702 or @rlad<20010702)	USPAT; US-PGPUB; EPO; JPO	2003/09/23
_	6	(((128/901).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3	USPAT; US-PGPUB; EPO; JPO	2003/09/23
_	14	((((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S1" or "s2" or HS1 or HS2 or "SI" or "SII" or "HSII")) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3	USPAT; US-PGPUB; EPO; JPO	2003/09/23
_	834	(600/508,513).CCLS.	USPAT; US-PGPUB; EPO; JPO	2003/09/23
_	767	((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702)	USPAT; US-PGPUB; EPO; JPO	2003/09/23
-	88	or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (sl or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSII"))	USPAT; US-PGPUB; EPO; JPO	2003/09/23 13:17
_	21	<pre>((((600/508,513).CCLS.) and (@ad&lt;20010702) or @rlad&lt;20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3</pre>	USPAT; US-PGPUB; EPO; JPO	2003/09/23
-	112	1	USPAT; US-PGPUB; EPO; JPO	2003/09/23

-	22	((((600/508,513).CCLS.) and (@ad<20010702	USPAT;	2003/09/23
		or @rlad<20010702) ) and ((heart near2	US-PGPUB;	13:18
		sound) or s1 or s2 or "S 1" or "s 2" or	EPO; JPO	
		HS1 or HS2 or "SI" or "SII" or "HSI" or		
		"HSII" or (lub near2 dub)) ) and		
		(derivat\$7 or differentiat\$4 or		
		differentiation or smooth\$5) and squar\$4		
		and threshold\$3		
_	1	(((((600/508,513).CCLS.) and	USPAT;	2003/09/23
		(@ad<20010702 or @rlad<20010702) ) and	US-PGPUB;	13:18
		((heart near2 sound) or s1 or s2 or "S 1"	EPO; JPO	
		or "s 2" or HS1 or HS2 or "SI" or "SII"		
		or "HSI" or "HSII" or (lub near2 dub)) )		
		and (derivat\$7 or differentiat\$4 or		
		differentiation or smooth\$5) and squar\$4		
		and threshold\$3 ) not		
		(((((600/508,513).CCLS.) and		
		(@ad<20010702 or @rlad<20010702) ) and		
		(((first or second) with (heart near2		
		sound)) or (s1 or s2 or "S 1" or "s 2" or		
		HS1 or HS2 or "SI" or "SII" or "HSI" or		
		"HSII")) ) and (derivat\$7 or		
		differentiat\$4 or differentiation or		
		smooth\$5) and squar\$4 and threshold\$3 )		
_	79		USPAT;	2003/09/23
			US-PGPUB;	13:21
			EPO; JPO	
_	64	((128/902).CCLS.) and (@ad<20010702 or	USPAT;	2003/09/23
		@rlad<20010702)	US-PGPUB;	13:22
			EPO; JPO	
-	2	(((128/902).CCLS.) and (@ad<20010702 or	USPAT;	2003/09/23
		@rlad<20010702) ) and (derivat\$7 or	US-PGPUB;	14:50
		differentiat\$4 or differentiation or	EPO; JPO	
		smooth\$5) and squar\$4 and threshold\$3		
_	834	(600/508,513).CCLS.	USPAT;	2003/09/23
			US-PGPUB;	15:00
			EPO; JPO	
_	216	(((600/504).CCLS.) and (@ad<20010702 or	USPAT;	2003/09/23
		@rlad<20010702) ) and ((pulse near2 wave)	US-PGPUB;	14:54
		or (velocit\$3 or speed\$3))	EPO; JPO	
-	767	1 , , , , , , , , , , , , , , , , , , ,	USPAT;	2003/09/23
		or @rlad<20010702)	US-PGPUB;	14:53
			EPO; JPO	
-	35	(((600/508,513).CCLS.) and (@ad<20010702	USPAT;	2003/09/23
		or @rlad<20010702) ) and ((pulse near2	US-PGPUB;	15:00
		<pre>wave\$4) and (velocit\$3 or speed\$3))</pre>	EPO; JPO	
-	671	(600/481,504).CCLS.	USPAT;	2003/09/23
	1		US-PGPUB;	14:59
			EPO; JPO	0000 (00 (00
-	615	((600/481,504).CCLS.) and (@ad<20010702	USPAT;	2003/09/23
	[	or @rlad<20010702)	US-PGPUB;	14:59
			EPO; JPO	0000 (00 (00
-	45	(((600/481,504).CCLS.) and (@ad<20010702	USPAT;	2003/09/23
	1	or @rlad<20010702) ) and ((pulse near2	US-PGPUB;	15:03
		<pre>wave\$4) same (velocit\$3 or speed\$3))</pre>	EPO; JPO	0000 (00 (00
-	54	600/\$ and ((pulse near2 wave\$4) same	USPAT;	2003/09/23
		(velocit\$3 or speed\$3)) and ((heart near2	US-PGPUB;	15:30
		sound\$1) or phonocardiogra\$4) and	EPO; JPO	
		(@ad<20010702 or @rlad<20010702)		0000 (00 (00
-	27	600/\$ and ((heart near2 sound\$1) or	USPAT;	2003/09/23
		phonocardiogra\$4) and (@ad<20010702 or	US-PGPUB;	15:30
		@rlad<20010702) and (systol\$2 with (tim\$3	EPO; JPO	
		or period)) and ((pulse near2 wave\$4)		
		same (velocit\$3 or speed\$3))	1	

-	0	(600/\$ and ((heart near2 sound\$1) or	USPAT;	2003/09/23
		phonocardiogra\$4) and (@ad<20010702 or	US-PGPUB;	15:30
		@rlad<20010702) and (systol\$2 with (tim\$3	EPO; JPO	
		or period)) and ((pulse near2 wave\$4)		
		same (velocit\$3 or speed\$3))) not (600/\$		
		and ((pulse near2 wave\$4) same (velocit\$3	-	1
		or speed\$3)) and ((heart near2 sound\$1)		
		or phonocardiogra\$4) and (@ad<20010702 or		
		@rlad<20010702))		
-	52	600/\$ and (@ad<20010702 or	USPAT;	2003/09/25
		@rlad<20010702) and (pulse with	US-PGPUB;	14:27
		(velocit\$3 or speed\$1)) and ((heart near2	EPO; JPO	İ
'		sounds) or phono\$1cardiogra\$4)		
_	106	600/\$ and (@ad<20010702 or	USPAT;	2003/09/25
!		@rlad<20010702) and (pulse with	US-PGPUB;	14:42
		(velocit\$3 or speed\$1)) and ((heart with	EPO; JPO	
		sound\$1) or phono\$1cardiogra\$4)	220, 020	
_	54	(600/\$ and (@ad<20010702 or	USPAT;	2003/09/25
	0.	@rlad<20010702) and (pulse with	US-PGPUB;	14:27
		(velocit\$3 or speed\$1)) and ((heart with	EPO; JPO	11.27
		sound\$1) or phono\$1cardiogra\$4)) not	10, 010	
		(600/\$ and (@ad<20010702 or		
		@rlad<20010702) and (pulse with		
		(velocit\$3 or speed\$1)) and ((heart near2)		
		sounds) or phono\$1cardiogra\$4))		
	113	600/\$ and (@ad<20010702 or	IICDATI.	2003/09/25
~	113	00073 and (0ad<20010702 or   0rlad<20010702) and (pulse with	USPAT; US-PGPUB;	14:45
		(velocit\$3 or speed\$1)) and (((heart or	EPO; JPO	14.45
			EPO, OPO	
		cardia\$1 or myo\$1cardia\$1) with sound\$1)		
		or phono\$1cardiogra\$4)	IICDAM.	2002/00/25
-	21	600/\$ and (@ad<20010702 or	USPAT;	2003/09/25
		@rlad<20010702) and (pulse with	US-PGPUB;	15:09
		(velocit\$3 or speed\$1)) and (((heart or	EPO; JPO	
		cardia\$1 or myo\$1cardia\$1) with sound\$1)		
		with first)	***************************************	2002/00/05
_	60	600/\$ and (@ad<20010702 or	USPAT;	2003/09/25
	İ	@rlad<20010702) and (pulse with	US-PGPUB;	14:42
		(velocit\$3 or speed\$1)) and (((heart or	EPO; JPO	
		cardia\$1 or myo\$1cardia\$1) near2 sound\$1)		
	_	or phono\$1cardiogra\$4)	l	/ /
-	8	(600/\$ and (@ad<20010702 or	USPAT;	2003/09/25
		@rlad<20010702) and (pulse with	US-PGPUB;	14:42
	ĺ	(velocit\$3 or speed\$1)) and (((heart or	EPO; JPO	
		cardia\$1 or myo\$1cardia\$1) near2 sound\$1)		
		or phono\$1cardiogra\$4)) not (600/\$ and	1	
		(@ad<20010702 or @rlad<20010702) and		
		(pulse with (velocit\$3 or speed\$1)) and		
		((heart near2 sounds) or		
	İ	phono\$1cardiogra\$4))		1

-	3	(600/\$ and (@ad<20010702 or	USPAT;	2003/09/25
	-	@rlad<20010702) and (pulse with	US-PGPUB;	14:43
		(velocit\$3 or speed\$1)) and (((heart or	EPO; JPO	
		cardia\$1 or myo\$1cardia\$1) with sound\$1)		
		or phono\$1cardiogra\$4)) not ((600/\$ and		
		(@ad<20010702 or @rlad<20010702) and		
		(pulse with (velocit\$3 or speed\$1)) and		
		((heart near2 sounds) or		
		phono\$1cardiogra\$4)) (droesch.xa. and		
		envelop\$3) (600/\$ and (@ad<20010702 or		
		@rlad<20010702) and (pulse with	}	
		(velocit\$3 or speed\$1)) and ((heart with		
		sound\$1) or phono\$1cardiogra\$4)) ((600/\$		
-		and (@ad<20010702 or @rlad<20010702) and		
		(pulse with (velocit\$3 or speed\$1)) and		
		((heart with sound\$1) or		
		phono\$1cardiogra\$4)) not (600/\$ and		
		(@ad<20010702 or @rlad<20010702) and		
		(pulse with (velocit\$3 or speed\$1)) and		
		((heart near2 sounds) or		
		phono\$1cardiogra\$4))) (600/\$ and		
		(@ad<20010702 or @rlad<20010702) and		
		(pulse with (velocit\$3 or speed\$1)) and		
		(((heart or cardia\$1 or myo\$1cardia\$1)		
		with sound\$1) with first) ) (600/\$ and		
		(@ad<20010702 or @rlad<20010702) and		
		(pulse with (velocit\$3 or speed\$1)) and	1	•
		(((heart or cardia\$1 or myo\$1cardia\$1)		
		near2 sound\$1) or phono\$1cardiogra\$4))		
		((600/\$ and (@ad<20010702 or		
		@rlad<20010702) and (pulse with		
		(velocit\$3 or speed\$1)) and (((heart or		
		cardia\$1 or myo\$1cardia\$1) near2 sound\$1)		
		or phono\$1cardiogra\$4)) not (600/\$ and		
1		(@ad<20010702 or @rlad<20010702) and		
		(pulse with (velocit\$3 or speed\$1)) and		
		((heart near2 sounds) or		
		phono\$1cardiogra\$4))))		